

## ABSTRACT OF THE DISCLOSURE

An improved method and system for diagnosing faults of a system under test is provided. One or more candidate diagnoses potentially responsible for observed testing failures are generated. Each candidate diagnosis is then assigned a weight based in part on any of a number of factors not previously considered in the weighting process, thus making the weighting process more accurate. In one case, the weight of a diagnosis may be based on the combined consistent utilization of the candidate diagnosis across all failing system tests. Alternately, or in addition, that weight may be based on the combined utilization of the diagnosis among all passing system tests. Other potential factors may also be used.